

NITE-TIMES NEWS

CHICAGO AREA TIMEX USERS GROUP

VOLUME 1 ISSUE 12

JANUARY 1988

EDITOR'S NOTES

The Nite-Times News is the newsletter of the Chicago Area Timex Users Group. It is available as a Public Domain feature of the North Shore Sinclair BBS (312)473-9415. If you are not a CATUG member and desire to have a hard-copy mailed to your home, please provide \$6.00 per year to cover the cost of postage. For an annual fee of \$10.00 you can become a CATUG member with full membership privileges. The Chicago Area Timex Users Group is pleased to exchange newsletters with other Timex and Sinclair supporting users groups. If you desire to reprint any articles that appear here, please provide credit to the author and this newsletter. If you have any suggestions or would like to submit an article, you may upload it onto the North Shore Sinclair BBS and leave a message about it with Sysop Gary or write to:

The Chicago Area Timex Users Group
Nite-Times News Editor
1885A Yorktown Avenue
Great Lakes, Illinois 60088.

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Articles that appear in this issue are:

- February CATUG Meeting
- Nite-Times Classifieds
- Relocating Machine Code Programs
- Timex Tidbits
- CATUG Library Notes
- National Timex Sinclair Directory Being Created
- Timex/Sinclair BBS Directory
- CATUG Member List

FEBRUARY C.A.T.U.G. MEETING

The February meeting of the Chicago Area Timex Users Group will be at the Downers Grove Public Library's Conference Room,

from 12:00 to 5:00 on the 20th of February. The library is located at 1050 Curtiss Street in Downers Grove. The CATUG representative for this meeting is Steve Cooper and he can be contacted at (312) 968-3553.

DIRECTIONS FROM THE NORTH: Take I-294 (Tri-State Tollway) south to I-88 (East West Tollway). Drive west on I-88 and exit at Highland Avenue. Take Highland south about three miles, during which it's name will change to Main Street. You will cross the Burlington-Northern tracks in downtown Downers Grove and turn right (west) at the next street (Burlington). Proceed one block to Forest Ave. At the intersection of Forest and Burlington is a public parking lot. The Library is located one block south of Burlington at the intersection of Curtiss and Forest. Please note that Burlington is a one-way street (westbound) and Curtiss is a one-way street (eastbound).

DIRECTIONS FROM THE SOUTH: Take I-55 (Stevenson Expwy) to the Lemont Rd North exit. Take Lemont Road north about four miles during which it will merge into Main Street. As you go into downtown Downers Grove, you will pass Curtiss Street, and turn left at the next intersection (Burlington), which is the last street before you cross the railroad tracks. Proceed one block west to Forest Ave. At the intersection of Forest and Burlington is a public parking lot. The Library is located one block south of Burlington at the intersection of Curtiss and Forest. Please note that Burlington is a one-way street (westbound) and Curtiss is a one-way street (eastbound).

NITE-TIMES CLASSIFIEDS

The Nite-Times Classified Ads are a service provided to all of our readers. Please submit your ads prior to the 15th of each month. They may be mailed to the Nite-Times News or sent to Sysop Gary via the Feedback Message Base on the North Shore Sinclair BBS (312) 459-5721.
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NITE-TIMES CLASSIFIEDS

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FOR SALE

A full library of TS-1000 and TS-1500 software and books. The price is \$2.00 - \$3.00 per title or a special bulk rate for the entire stock. For more information contact:

Gary Lessenberry
1885A Yorktown Ave
Great Lakes, IL 60088
312/473-9415

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NEW PRODUCT ANNOUNCEMENT

QZX, a national Sinclair computer newsletter, has just published a 60 page index book.

QZX publishes articles, news, and programs on the use of all the Sinclair computers for communications. Most of the subscribers, who come from all states and over 20 countries, are radio amateurs who use their Sinclair computers in their radio stations.

The index book is a bound xerox copy of all the covers of all the monthly issues since December 1982. The covers list all the articles and programs which have appeared along with the authors and, in most cases, some indication of the specific computer for which the program was written. The index book can be obtained by sending \$5.00 (plus \$1.00 shipping and handling) to:

QZX
2025 O'Donnell
Las Cruces, New Mexico 88001

* * * * *

FOR SALE

AFFORDABLE HI-RES PLOTTING for the TS-2068 and Commodore 1520 four-color printer/plotter! The plotter can be found at Toys-R-Us stores for \$29.95. Interface hardware (from bareboard to assembled & tested) as well as utility software for screen to plotter graphic transfer, banner making, and word processing are available from: John McMichael

1710 Palmer Drive
Laramie, WY 82070

A large SASE gets you more info and a sample plot.

RELOCATING MACHINE CODE PROGRAMS IN THE TS-2068

By James F. Brezina

Why would one want to relocate machine code? Many machine code programs written for the 2068 are located in the same area of RAM. Sometimes one might want to use both if they can be used that way. If you relocate one, you may be able to use both. I had previously purchased the Zeal disassembler and

found that I couldn't use my printer driver with it because they both used the same area of RAM to store their machine code. Although the printer interface I used (TASMAN) had a driver program to store in the computer's printer buffer, I found that I couldn't use that either because something in the Zeal disassembler would wipe that out. I found out that, even after transferring the printer driver to an address below the Zeal disassembler machine code, I still could not use it directly through the Zeal disassembler. I had to use the Tasman screen copy routine to get a printout of the screen. Tasman has 2 screen copy routines. One is for text only and is stored with the regular printer driver. The other is stored in the computer's printer buffer and will copy anything on the screen. The computer's printer buffer location is reverted to normal with NEW.

Machine code programs that have been saved on tape or disk are loaded back into the computer memory with LOAD ""CODE (or a name can be specified (must be for some disk systems)). With that simple way of entering, the code is placed at the same address it was saved from. If you want to relocate it, then you enter LOAD ""CODE (address) and it will load in at the address specified. If the code contains only relative jumps and ROM calls, it can be run with no changes. If it contains absolute jumps and calls within its own addresses, these will have to be changed for the program to work. I have successfully done this to a few programs and got them to work.

A disassembler program comes in quite handy for accomplishing the changes. I use the ZEAL disassembler since it prints out the addresses in decimal. The ZEAL disassembler has a set up to print to a printer, but, as far as I can tell, it only supports the 2040 printer. The Zeal disassembler did give me an option to have the program disassembled in its present location and in its original location, or at any address I choose. If you want, you can get printouts at both locations. In order to get a printout of the Zeal disassembly, it was necessary to break out of the Zeal program with CAPS SHIFT/BREAK and then copy the screen. This was a little tough to do on the first break out, but, after that it was no trouble.

If you have made the printouts at both locations, take the two printouts and compare them. One of the things you will notice is that the relative jump addresses are different. This is correct and they do not have to be changed. You will then notice that the absolute jumps and calls are the same in both listings. You will also notice that paired registers are loaded with numbers. These numbers are equivalent to addresses in the code. Generally, these are the HL register. All the absolute jumps will have to be changed. If the calls and HL numbers are to ROM or (in most cases) to addresses below 26710, they do not need to be changed. If the calls and HL numbers are to addresses in the program, they will have to be changed. What I do, in this case is look for the address shown in the original program. Then I find the comparable address in the relocated program and break it down into High Byte and Low Byte (i.e. (continued on page 3))

RELOCATING MACHINE CODE PROGRAMS IN THE TS-2068

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High Byte = $\text{INT}(\text{address}/256)$ and Low Byte = $\text{address} - \text{High Byte} * 256$. Once you have this information you go back to the relocated address that originally listed that address in the mnemonics and POKE the following two addresses with the low byte and high byte in that order.

It is a lot of work, but, once you have everything changed, you have a relocated program that works like the original. You must resave the changed program and it will load back in at the new address without specifying the new address. Remember that you must set RAMTOP at one address below the start of the code. Since I now have the Tasman printer driver located at 60000 and the Zeal disassembler loaded in, I initialize the printer driver with RANDOMIZE USR 60003, and then use RANDOMIZE USR 60000 to make a text only screen copy.

I have used this procedure to move other programs. One of them was the screen copy code that Tasman had supplied. Tasman had listed a number of printers for copy codes they had on the cassette, but, they didn't list my printer (Panasonic) by name. I tried all of them, but, the only one that appeared to work correctly was one called Shin-Wa. These screen copy codes were all stored in the computer's printer buffer. There is one thing wrong with the code being located in the computer's printer buffer. When you key NEW, the code is erased. I loaded in the Zeal, followed by the relocated printer driver, and then the screen copy code. I got a printed copy of the disassembly of the screen copy code. I wanted to relocate to 63000, but since that was in the Zeal code area I chose 53000 to locate it at temporarily and then set the relocation to 63000 (10000 bytes) in the printout. Using the 53000 made it simpler to figure start addresses. I then made a hard copy of the disassembly and went back to the menu and changed the relocation to zero and made a hard copy of the code at 53000. Comparing all three listings, I found where I had to make the changes.

After entering the changes at 53000 to 53256, I saved the code. Then, turning off the computer to clear everything out, I turned the computer on again, set RAMTOP at 62999, LOADED the copy code in at 63000. I then resaved the program at the proper address. I now have a screen copy code that remains in memory after NEW.

I think I should mention here that, one of the addresses loaded into the HL register in the screen copy program is used to contain a number which is used to control the size of the screen copy. That address will contain a 1 for small screen copy and 0 for large screen copy. The large screen copy will not copy the full horizontal screen. It will be a few columns short on the right side. This is an example of the reason for changing the numbers held in the HL register.

Although, I do not understand enough to write my own machine code, I understand enough to figure out how to do things like

relocating machine code. If you understand enough to figure that out, you can do it too.

CATUG LIBRARY NOTES

By Gary Lessenberry

Each month I will start posting a list of articles that the CATUG library has received from other user groups via our newsletter exchange. The newsletters with these articles will be available for check out at the monthly CATUG meetings.

1. SINC-LINK (Nov-Dec 1987)
 - Digital Imaging II
 - 2068 Tape Tutorial
 - Larken DSK400 Review
2. DETROIT AREA TIMEX/SINCLAIR NEWS (Dec 1987)
 - 2068 To QL Program Transfers
 - Using The Atari Trackball On The QL
 - Q_Link Review
 - A Spectrum Digitizer
3. USER AMUSER (Dec 1987)
 - BIT/S n PC's
4. THE RAMTOP (Nov/Dec 1987)
 - The PC8300 Computer
 - Cassette Signal Booster
 - TS-1000 Verify
5. INDIANA SINCLAIR-TIMEX USER GROUP NEWSLETTER (Oct/Nov 1987)
 - TS1000 RAM Pack Upgrade
 - Let Icons Be Icons (2068 Program)
 - Wordsquare (2068 Program)
6. CATS Newsletter (Dec 1987)
 - PLOTI (QL Plotter Program)
 - Add An ON/OFF Switch To Your QL
 - 3D Wire Fram Graphics (QL Program)
7. QZX (Sept 1987)
 - Field Day Log And Dupe Program (TS-1000)
 - Z-SI/O RS-232 Review (with ref to packet)
 - Specterm-64 Review (with ref to packet)
8. SMUG BYTES (Dec 1987)
 - JLD SDOOS Menu Program (TS-2068)
9. THE HACKER (Dec 1987)
 - Bingo (2068 Program)
10. ZX-APPEAL (Dec 1987)
 - Beep, Beep (ZX81 Hardware Project)
 - ZX81 Pokes
 - TS-1000 Pie Chart (TS-1000 Program)
 - Playing With Electricity (QL Memory Layout)
11. SLUG NEWSLETTER (Dec 1987)
 - Santa (2068 Game Program)
 - Ohm's Law (2068 Program)
12. PIXEL PRINT PRESS (Fall 1987)
 - Various Articles About Desk Top Publishing

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CATUG LIBRARY NOTES

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13. LISTING NEWSLETTER (Nov 1987)
 - 16K - Fitting It "Under The Hood" (Hardware Project)
 - New Lamps For Old (TS-1000 & IBM PC Program Project)
14. THE DATA EXPANSION (Dec 1987)
 - Zebra FDD Catalog Utility (2068 Program)
 - Fastape (2068 Program)
 - Mscript V5.3 Description

A NATIONAL TIMEX SINCLAIR DIRECTORY BEING CREATED

The Chicago Area Timex Users Group (CATUG) is assembling a national Timex-Sinclair directory that will include names and addresses, telephone numbers of Timex-Sinclair users, repair facilities, bulletin board systems (BBS), users groups, retailers, and publications. We are requesting all that all Timex-Sinclair users groups support our efforts by providing any information that they may possess. We also strongly encourage all active Timex/Sinclair users to provide their name, address, telephone number, and computer hardware profile for inclusion in this directory. Send your information to:

The Chicago Area Timex Users Group
T/S Directory
1885A Yorktown Avenue
Great Lakes, IL 60088

TIMEX TIDBITS

The Nite-Times News has been providing the wrong dates for the Timex Sinclair Sunstate Winterfest. The correct dates are 4-6 March 1987.

Ron Havlen (Editor of the Zebra FDD Newsletter) has adapted two CP/M telecommunications terminal programs to the Zebra FDD system (CP/M mode only). This allows the Zebra FDD users to download and use public domain CP/M software with their systems! For a copy of the two terminal programs (Modem and Modem-7) send a blank 3 inch disk and return postage to: Ron Havlen, 43307 Chambers Road, Horseheads, NY 14845. Ron also has a disk of additional public domain CP/M software that you get by sending a second disk to him.

The LISTing Newsletter reports that A&J Assembly will no longer be supplying microdrives or cartridges. They had approximately 80 left. For more info, write or call A&J Assembly at 2842 Aiello Drive, Suite C, San Jose, CA 95111, tel: 408/281-0100.

The LISTing also reports that Richard Moldovan (7414 East Cuernavaca Place, Tucson, AZ 85710) has been selling voice synthesizers for \$39.00! These work via an RS-232 port (like on the QL).

The Pixel Print Press Newsletter is available as a service

to the owners of Pixel Print. To get a one year subscription send 4 business sized SASE to Lemke Software Development, 2144 White Oak, Wichita, KS 67207

The Capital Area Timex/Sinclair Users Group (CATS) is exploring the possibility of hosting a Timex/Sinclair computerfest during the second weekend of May (13-14) 1989.

CATS Newsletter reports that Amstrad has released the Spectrum 128+3 for approximately 200 pounds. It uses a three inch drive and is NOT COMPATIBLE with virtually any Spectrum peripheral on the market. It has a different expansion port pin-out and it doesn't allow paging. It has new, improved joystick port that is not Kempston or Sinclair compatible!

Herb Bowers (2588 Woodshire Circle, Chesapeake, VA 23323) has The New Tax Law And You, and Form W-4 programs available for \$7.00 each or \$12.00 for both. These come on cassette only for the TS-2068.

The Greater Cleveland Sinclair Users Group is still exploring the possibility of hosting a midwest Timex Sinclair computerfest. If they do, it will be in later 1988 or early 1989.

CHICAGO AREA TIMEX USERS GROUP

(JANUARY 1, 1987)

| | |
|--|----------------|
| BLAYNE ARNISON: | |
| 9211 S. HARDING AVE, EVERGREEN, IL 60642 | (312) 422-0030 |
| PAUL BEATTY: | |
| 7634 N. GREENVIEW, CHICAGO, IL 60626 | (312) 764-8378 |
| JAMES BREZINA: | |
| 1029 SPRING RD, ELMHURST, IL 60126 | (312) 832-1782 |
| JERRY COHLER: | |
| 5928 N. ROCKWELL, CHICAGO, IL 60659 | (312) 878-4606 |
| STEVE COOPER: | |
| 1300 MAPLE, DOWNERS GROVE, IL 60515 | (312) 968-3553 |
| JOHN L. DONALDSON: | |
| 835 FOXWOOD CIRCLE, GENEVA, IL 60124 | (312) 232-6147 |
| BILL DONETS: | |
| 2905 COVERT RD., GLENVIEW, IL 60025 | (312) 657-8168 |
| MARK DORINSON: | |
| P.O. BOX 351, FRANKFORT, IL 60423 | (815) 469-3403 |
| KEN DUDA: | |
| 3345 N. OKETO AVE, CHICAGO, IL 60634 | UNLISTED |
| ALPHONSO FENG: | |
| 15 WAKE ROBIN CT, WOODRIDGE, IL 60517 | (312) 971-0495 |
| GLORIA GEDONIUS: | |
| 459 W. MELROSE, APT 1 E, CHICAGO, IL 60657 | (312) 871-6579 |
| JIM HENDERSON: | |
| 5710 N. MERRIMAC, PEORIA, IL 61614 | (309) 691-3332 |
| JAMES KERR: | |
| 626 E. 144TH PLACE, DOLTON, IL 60419 | (312) 841-5034 |
| WILLIAM J. KLEIN: | |
| 400 E. GARFIELD, INGLESIDE, IL 60041 | (312) 587-5665 |

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CHICAGO AREA TIMEX USERS GROUP

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DAVE LEBOWITZ:

934 GARDNER ROAD, FLOSSMOOR, IL 60422 (312) 798-4365

GARY L. LESSENBERRY:

1885A YORKTOWN AVE., GREAT LAKES, IL 60088 (312) 473-9415

LEOPOLD MAJEWSKI:

14120 WINDSOR CT., WOODSTOCK, IL 60098 UNLISTED

EDWIN L. SCHOEN:

P.O. BOX 9076, DOWNERS GROVE, IL 60515 (312) 852-9372

AL SHERMAN:

9216 MARIE, SCHILLER PARK, IL 60176 (312) 671-2720

LEE THORESEN:

45 HICKORY LANE, CRETE, IL 60417 (312) 672-9066

BUTCH WEINBERG:

5028 1/2 S. ELLIS, CHICAGO, IL 60615 UNLISTED

* * * Out Of Town CATUG Members * * *

RICK CONNERS:

2-29-3 NISHI OGI MINAMI, SUGINAMI-KU, TOKYO 167 JAPAN

JOHN McMICHAEL:

1710 PALMER DRIVE, LARAMIE, WYOMING 82070

RUTH FELEY:

5736 RIDGEDALE ROAD, BALTIMORE, MD 21209

VY GOMEZ:

2013 #3 LOS FELIZ, THOUSAND OAKS, CA 91362

MELVIN HOYT:

4409 49TH STREET, MOLINE, IL 61265

JOAN KEALY:

3334 ZION, B-11, EL PASO, TX 79904

JOHN J. SHEPARD:

R2, BOX 408D, COLDWATER, MS 38618

JAY S. SIEGLE:

1616 55TH STREET, BASEMENT APT, BROOKLYN, NY 11204-1823

To become a member of the Chicago Area Timex User Group, send your name, address, phone number, and computer system description with ten dollars to the CATUG treasurer, Paul Beatty, 7634 N. Greenveiw, Chicago, IL 60626. In return, you will gain monthly mailouts of the Nite-Times News, access to the CATUG text and software libraries and participation in group purchases. If you are outside of the Chicago metropolitan, you need only submit six dollars for full membership. If you are a subscriber to the Nite-Times News and your name is not on this list, do not be alarmed, your subscription will remain in effect until twelve issue are completed. After that the newsletter will only be available via membership, BBS download, or user group exchange.

TIMEX/SINCLAIR BBS DIRECTORY

(JANUARY 1988)

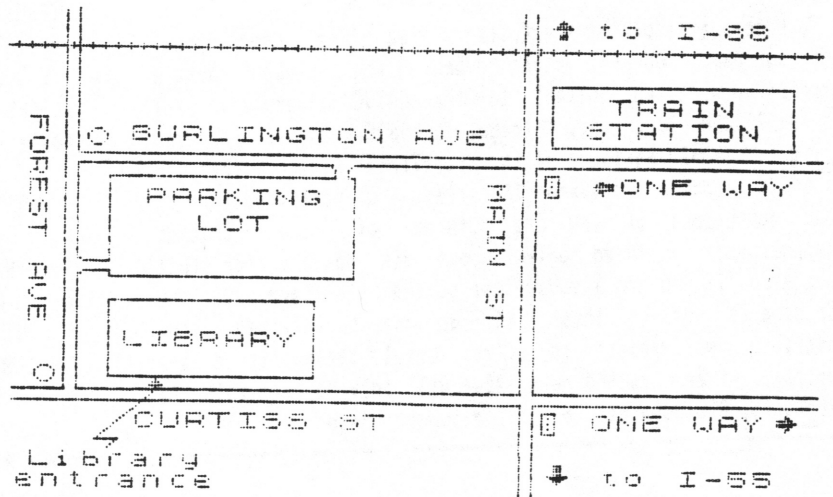
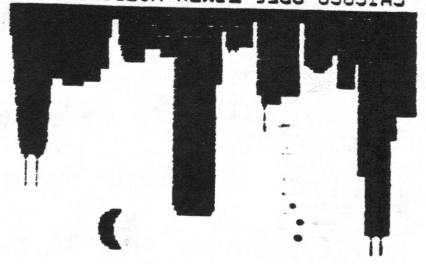
| BULLETIN BOARD | NUMBER | NOTES | RATES |
|---------------------------------|----------------|-----------|-------|
| VSYS TIMEX/SINCLAIR BBS | (201) 527-0535 | 7 M @ % ? | 16/15 |
| QLCOM BBS | (201) 328-2919 | 7 M D @ | 16/15 |
| T.S.U.G. | (201) 956-7703 | 8 L D @ | 15/14 |
| TIME=<X>=CHANGE BBS | (213) 329-3922 | 8 H D @ | 17/15 |
| STARTEXT | (214) 877-1041 | 8 M \$ | 16/15 |
| FWKUG MBBS | (214) 540-4183 | 8 D @ | 16/15 |
| TIMELINES BBS | (216) 671-6922 | 8 H D % | 15/14 |
| CLEVELAND FREE-NET BBS | (216) 368-3888 | 7 L @ | 15/14 |
| KINGS MARKET BBS | (303) 665-6091 | 8 M D @ | 16/15 |
| NORTH SHORE SINCLAIR BBS | (312) 473-9415 | 8 L D % @ | ----- |
| PEOPLE-LINK IN AC 312 | (312) 822-9712 | 8 L D \$ | ----- |
| PEOPLE-LINK | (800) 826-8855 | 8 L D \$ | ----- |
| COMPUSERVE | (312) 443-1250 | 7 H D \$ | ----- |
| SERIAL PORT BBS | (313) 286-0145 | 8 H D | 15/13 |
| TIME-HEX BBS | (317) 362-8085 | 8 M % - | 15/13 |
| ISTUG BBS | (317) 898-3903 | 7 H | 15/13 |
| BILL'S OBSESSION BBS | (404) 377-2550 | 8 H D @ | 16/15 |
| TIMEXNET BBS | (408) 248-8017 | 7 L @ ? | 16/14 |
| PUBLIC DOMAIN SOFTWARE EXCHANGE | (415) 571-6911 | 8 M D @ | 16/14 |
| DOWNLOADERS ANONYMOUS | (416) 844-2035 | 8 M D ? | 22/18 |
| R.M.G. BBS | (503) 656-8072 | 8 H @ % | 17/15 |
| JJ'S FIDO | (505) 522-7081 | 8 L D | 17/15 |
| TIMEWARP BBS (PW=60RT) | (515) 282-4169 | 8 M D | 15/13 |
| OWEGO FREE ACADEMY BBS | (607) 754-3420 | 8 L D | 16/15 |
| THE TIMEWARP BBS | (617) 481-0555 | 7 L D @ | 16/15 |
| FLEXI BBS | (617) 648-7651 | 8 L @ | 16/15 |
| MAINSTREET DATA BBS | (619) 439-6624 | 8 \$ | 16/15 |
| FLASH! BBS | (702) 644-6910 | 8 M D | 16/14 |
| TEACHER'S PET BBS | (704) 547-4185 | 8 L D % ? | 16/15 |
| SINCLAIR AT NIGHT BBS | (718) 627-1293 | 8 H D % | 15/14 |
| MICROLINK BBS | (718) 648-3502 | 8 L D | 15/14 |
| SUNSTATE T/S BBS | (904) 775-0093 | 7 M | 16/14 |
| THE BUS DEPOT BBS | (904) 262-6761 | 8 L D | 16/15 |
| ALICES RESTAURANT BBS | (914) 477-8017 | 7 L ? | 16/15 |

TIMEX BBS DIRECTORY LEGEND

| | | | |
|----|---------------------------|---|---------------------------|
| 7 | PARAMETERS = 7/E/1 | 8 | PARAMETERS = 8/N/1 |
| D | TIMEX FILE TRANSFERS | L | LOW USAGE T/S MSG BASE |
| M | MEDIUM USAGE T/S MSG BASE | H | HIGH USAGE T/S MSG BASE |
| \$ | SUBSCRIPTION REQUIRED | % | OPERATION DURING EVENINGS |
| @ | ACCESSIBLE VIA PC PURSUIT | ? | DOWN UNTIL FURTHER NOTICE |

RATES ARE THE CHARGES FROM CHICAGO FOR THE FIRST MINUTE & EACH FOLLOWING MINUTE AFTER 11:00 PM AND ON WEEKENDS.

CHICAGO AREA TIMEX USERS GROUP
 1865A YORKTOWN AVENUE
 GREAT LAKES, ILLINOIS 60068



CHICAGO AREA TIMEX USERS GROUP
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 GREAT LAKES, ILLINOIS 60068